PROJECT DESCRIPTION

I. GENERAL

This portion of the project involves the reconstruction of existing Traffic Control Signals at the intersection of US 1 and Farragut Street in Prince George's County. US 1 is assumed to run a north-south direction. The signal shall be interconnected to Gallatin Street to the north and to 42nd Place / Crittenden Street to the south.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA three-phase, semi-actuated mode, with the US 1 approaches running concurrently. Pedestrian phases with pushbutton actuation shall be provided across the south leg of US 1. The existing pedestrian phase across Farragut Street shall remain on recall. Farside sampling stations shall be provided on both legs of US 1 at this intersection. The Farragut Street approach shall run in its own phase. Detection shall be provided via video detection.
- 2. A full-traffic-actuated, eight-phase controller with all necessary equipment and a master ASC 2M controller housed in a master base-mounted cabinet shall be installed at this intersection.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable,
- 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- 4. Upon completion of this project, the Contractor shall notify Mr. Robert Snyder at (410) 787-7631 to arrange for the phone line installation at US 1 and Farragut Street. The Contractor is to provide Mr. Robert Snyder with the nearest street address, zip code and phone number.

EQUIPMENT LIST

ITEM	•			;
NO.	DESCRIPTION	QUA	NTITY	
9041	Cabinet master w/ telemetry and controller.	. 1	EA	
9045	Controller master ASC 2M with telemetry.	1	EA	
9086	Video detection interface equipment: 1-4 cameras (To be installed by signal shop).	1	EA	
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	62.5	SF	
	D3-2 "Farragut St " sign, (variable x 16") (dual faced), mast arm mounted.	1	E A .	·
	D3-2 "(arrow) Baltimore Ave / Rhode Island Ave (arrow)" sign, (variable x 32") (dual face mast arm mounted.	1 ed)	EA	•
	R10-11b "NO TURN ON RED" sign, (24"x24") mast arm mounted.	1	EA	
	GUIDE SHIELD ASSEMBLY (36"x75") pole mounted. M3-1 "NORTH"(30"X15") M1-4 "US 1"(36"X36") M6-1 "left arrow"(30"X24")	1	EA	
	GUIDE SHIELD ASSEMBLY (24"x51") pole mounted. M3-3 "SOUTH"(24"X12") M1-4 "US 1"(30"X24") M6-1 "right arrow"(21"X15")	1	EA	
В•	EQUIPMENT TO BE FURNISHED AND/OR INSTAL	LED BY	THE CONTRACTOR	
ITEM NO.	DESCRIPTION	QUA	NTITY	
2001	Class 2 Excavation.	3	C.Y.	
2002	Test Pit Excavation	- 4	C.Y.	

50 L.F.

240 S.F.

thermoplastic pavement

24" white heat applied permanent preformed

thermoplastic pavement

4" concrete sidewalk.

marking.

marking.

EQUIPMENT LIST (CONT.)

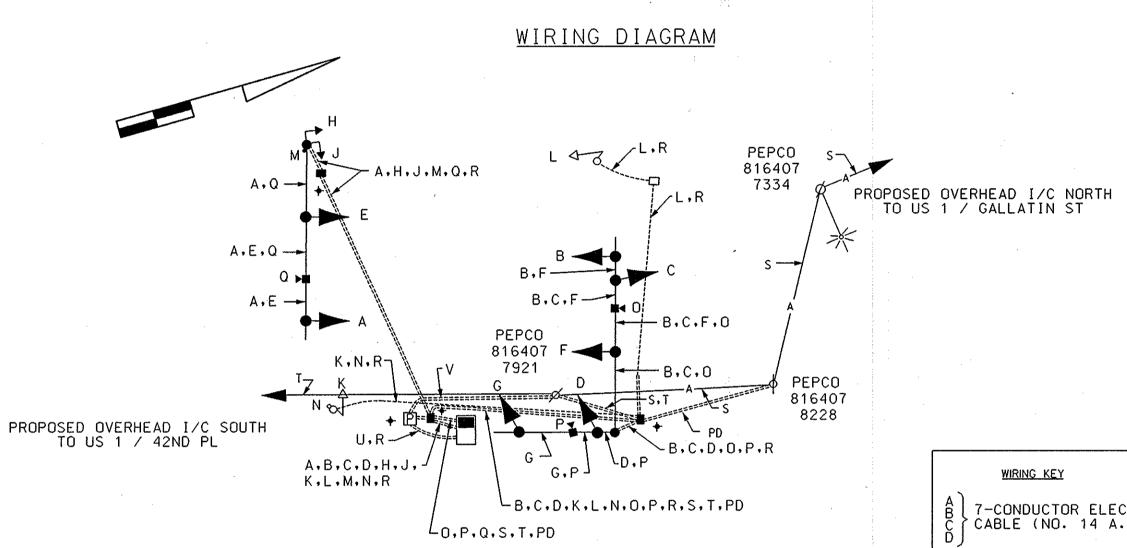
	В.	EQUIPMENT TO BE FURNISHED AND/OR INSTALL	_ED BY TI	HE CONTRACTO	ıR
	ITEM NO.	DESCRIPTION	QUAN	TITY .	
	8001	Furnish and install concrete for signal foundation.	9	C.Y.	
	8002	Furnish and install 12" pedestrian signal head section	4	EA	
,	8008	Pre-manufactured camera to controller (200' length) cable	3	EA	
	8019	Remove and dispose of existing material and equipment per assignment.	1	EA	
	8027	Detectable warning system (truncated domes).	40	SF	
	8031	Furnish and install No. 6 AWG stranded bare copper ground wire.	340	L.F.	
	8034	Furnish and install 3" electrical conduit – galvanized riser.	70	L.F.	
	8035	Furnish and install 3" weatherhead.	2	EA	
	8038	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit – bored.	70	L.F.	
	8039	Furnish and install 2" schedule 80 rigid polyvinyl chloride – trenched.	70	L.F.	
	8040	Furnish and install 3" schedule 80 rigid polyvinyl chloride – trenched.	30	L.F.	
	8041	Furnish and install 4" schedule 80 rigid polyvinyl chloride - trenched.	95	L.F.	
	8046	Metered service pedestal.	1	EA	
	8048	Furnish and install electrical cable 1-conductor No. 4 AWG THHN/THWN.	35	L.F.	
	8054	Furnish and install electrical handhole.	3	EA	
7	8057	Install overhead sign.	62.5	S.F.	
	8058	Furnish and install video detector camera.	1	EA	
	8062	27' steel pole and twin 50' (cut to 30') / 50' (cut to 40') mast arms.	1	EA	
	8064	Furnish and install 27' (cut to 21') mast arm pole and 50' (cut to 40') mast arm.	1	EA	
	8075	Furnish and install ground rod $-\frac{3}{4}$ " \times 10'.	4	EA	
	8077	Furnish and install 12" vehicular traffic signal head section	21	EA	
	8080	Cut, clean, galvanize and cap traffic signal structure.	4	EA	
	8083	Furnish and install electrical cable – 2 conductor (No. 14 AWG).	220	L.F.	
	8085	Furnish and install electrical cable – 5 conductor (No. 14 AWG).	585	L.F.	
	8086	Furnish and install electrical cable – 7 conductor (No. 14 AWG).	480	L.F.	
	8090	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS BALTIMORE AVE".)	2	EA .	
	8096	Install controller and cabinet base mount.	1	EA	
	Neg.	Furnish and install electrical cable – 1 conductor (No. 250 KCMIL)	210	LF	
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C. EQUIPMENT TO BE REMOVED

SHA Forces shall remove the controller and all auxilliary equipment from the controller cabinet. The cabinet and all other removed signal materials are to become property of the contractor.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	
	(R) (Y) (G)	R Y G	R Y G	(R) (Y) (G)	R Y G	RYG	R	1	那	师 头	那	
PHASE 2 & 6	G	G	G	G	G :	R	R	WK	WK	DW	DW	•
PED CLEAR	G	G	G	G	G	R	R	FL/DW	FL/DW	D₩	DW	
2 & 6 CHANGE	Y	Υ	Υ	Y	Ý	R	R	DW	DW	DW	DW	-
PHASE 4	R	R	R	R	R	G	G	DW	DW	DW	DW	
4 CHANGE	R	R	R	R	R	Y	Y	DW	DW	DW	DW]_
PHASE 4 ALT	R	R	R	R	R	G	G	D₩	DW	WK	WK	1
PEED CLEAR	R	R	R	R	R	G	G	DW	DW	FL/DW	FL/DW	
4 CHANGE ALT	R	R	R	R	R	Υ	Y	D₩	DW	D₩	D₩	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	1



STREET TRAFFIC STUDIES, LTD.

400 Crain Hwy.,NW. Glen Burnie,MD 21061

Ph (410) 590-5500

Fax (410) 590-6637 <

4695Igi.dgn

NOTE: COIL 35' OF 3-1 CONDUCTOR CABLE (NO 250 KCMIL) AT

BASE OF UTILITY POLE PEPCO 816407 7921

The contact persons for District #3 (Prince George's County) are as follows:

Mr. Majid Shakib Assistant District Engineer - Traffic Phone: (301 513-7358

Mr. Wayne Mowdy Assistant District Engineer - Maintenance

Mr. Augie Rebish Assistant District Engineer - Utility Phone: (301) 513-7350

Mr. Richard L. Daff, Sr.

Chief, Traffic Operations Division Phone: (410) 787-7630 Mr. Ed Rodenhizer

Signal Shop 410-787-7652 Mr. Sonny Bailey

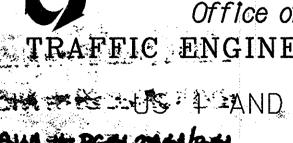
Phone: (301) 513-7304

Sign Shop 410-787-7670 The power company representative is:

Mr Richard Chilcoat 8300 Old Marlboro Pike Upper Marlboro, MD 20772

7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G) M) 2-CONDUCTOR ELECTRICAL N) CABLE (NO. 14 A.W.G)

- PRE MANUFACTURED TO CONTROLLER CABLE (200')
- R STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
- S 12-PAIR VOICE GRADE INTERCONNECT
 T CABLE (SELF SUPPORTING)
- U -2-1 CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- V 3-1 CONDUCTOR ELECTRICAL CABLE (NO 250 KCMIL)
- PD PHONE DROP BY SHA FORCES
- + GROUND ROD



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

SHA # PGSLOAGI/BS TO-JUSTIF SORT DRAWN BY: RC. TS NO. F.A.P. NO. CHECKED BY: S.H.A. NO. AT5665185 SHEET NO. PRINCE GEORGE'S SCALE: NONE_ COUNTY: T.I.M.S. NO. 2/15/05 16000101.71 G633 D6-3 DATE: LOG MILE: